



City of Virginia Beach

Water Source Overview

Major water sources include Lake Gaston and groundwater wells.

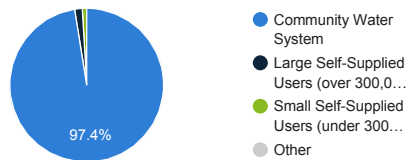
***Table 1:** Reported (2010) and projected (2040) water use by system type for Virginia Beach in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	73.064	100.534
Large Self-Supplied Users (over 300,000 gal/month)	1.230	1.230
Small Self-Supplied Users (under 300,000 gal/month)	0.664	0.643
Agricultural Self-Supplied Users	0.019	0.026

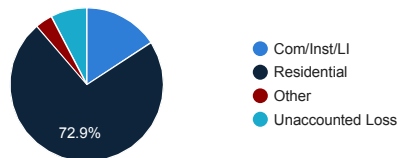
Water Use by System Type

Approximately 4,851 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Virginia Beach in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
1.40	73.58	1.38	101.05

***Figure 3:** Virginia Beach highlighted in the Commonwealth of Virginia



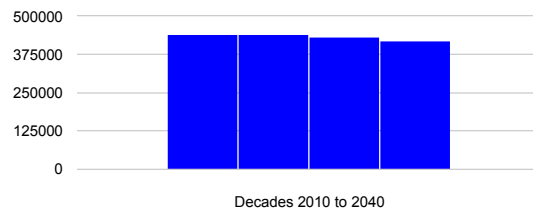
Projected Water Demand

Demand is projected to increase through the planning period. Existing water sources are expected to meet projected demands.

***Table 3:** Virginia Beach population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

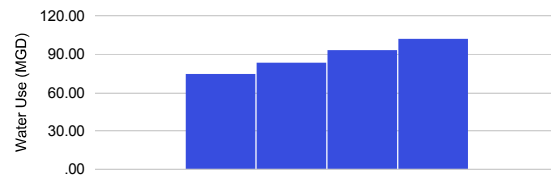
2010	2020	2030	2040	% Change (2010-2040)
437,994	438,114	430,495	419,103	-4.1%

***Figure 4:** Virginia Beach population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Virginia Beach water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
74.98	84.13	93.28	102.43	36.6%



Drought Management Practices

The City of Virginia Beach adopted an ordinance for the implementation and enforcement of the Drought Response and Contingency Plan. (Hampton Roads Regional WSP)